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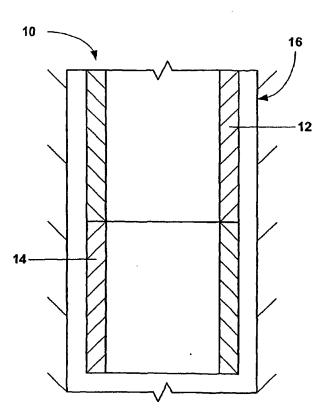
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[Continued on next page]

(54) Title: METHOD OF MANUFACTURING A TUBULAR MEMBER



(57) Abstract: A method of manufacturing a tubular member.

<u>18</u>

WO 2006/020913 A3



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Declaration under Rule 4.17:

- of inventorship (Rule 4.17(iv))

Published:

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 28 September 2006

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28819

A. IPC:		SSIFICATION OF SUBJECT MATTER E21B 23/00(2006.01),17/00(2006.01);C21D 9/08	3(2006.01)				
USPC: 166/380,382,207,242.1;148/593 According to International Patent Classification (IPC) or to both national classification and IPC							
В.	FIEL	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/380, 382, 207, 242.1; 148/593							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
C.	DOC	UMENTS CONSIDERED TO BE RELEVANT					
Catego	ry *	Citation of document, with indication, where a	ppropriate,	of the relevant passages	Relevant to claim No.		
X,		US 2005/0217768 A1 (ASAHI et al) 06 October 200	5 (06/10/2	005) (see the entire patent,	1-23		
X		in particular Paragraphs [0005], [0052]-[0078], [0090]-[0113], and Tables 1-3). US 6,543,552 B1 (METCALFE et al) 08 April 2003 (08/04/2003), see tubular member 18 having one or more intermediate characteristics in Figures 1-5 and one or more final characteristics in Figures 6-7.			1-7		
A			15/01/1974)), see figures 1-3.	1-7		
		,					
F	urther	documents are listed in the continuation of Box C.		See patent family annex.			
		pecial categories of cited documents:	-T-	later document published after the inter	rnational filing date or priority		
	ocument	defining the general state of the art which is not considered to be		date and not in conflict with the applica- the principle or theory underlying the i	ation but cited to understand invention		
- :	rlier app	plication or patent published on or after the international filing	-X.	document of particular relevance; the considered novel or cannot be consider step when the document is taken alone	red to involve an inventive		
cs		which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"	document of particular relevance; the considered to involve an inventive step combined with one or more other such being obvious to a person skilled in the	when the document is documents, such combination		
		referring to an oral disclosure, use, exhibition or other means published prior to the international filing date but later than the	-&-	document member of the same patent f	amity		
	iority d	te claimed	Date of -	vailing of the international corre	h report		
Date of the actual completion of the international search				Date of mailing of the international search report 0.3 AUG 2006			
		iling address of the ISA/IIS	Authorize				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US				X (1)&1_			
Commissioner of Patents P.O. Box 1450			Hoang Dang				
		Box 1450 andria, Virginia 22313-1450	e No. 571-272-3600				
Facsimi	Facsimile No. (571) 273-3201						

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28819

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet .					
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.					

	PCT/US05/28819
INTERNATIONAL SEARCH REPORT	
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OX II. OBSERVATIONS WHERE UNITY OF INVENTION IS L	ACKING
ais application contains the following inventions or groups of inventions which	h are not so linked as to form a single general inventiv
encept under PCT Rule 13.1. In order for all inventions to be examined, the a	appropriate additional examination fees must be paid.
roup I, claim(s) 1-7, drawn to a method of manufacturing a tubular member.	
roup II, claim(s) 8-23, drawn to a method of manufacturing an expandable tub	oular member.
he inventions listed as Groups I and II do not relate to a single general inventi-	ve concept under PCT Rule 13.1 because, under PCT
ule 13.2, they lack the same or corresponding special technical features for the	e following reasons: The special technical feature of
aims of Group I is the intermediate characteristics of the tubular member when processed into its final characteristics. The special technical feature of the cla	in it is positioned within a preexisting structure where
fer heat treating so that the tubular member comprises a microstructure compr	rising a hard phase and a soft phase. The inventions of
roups I and II lack unity because they depend on different technical features.	
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